

# MONTANA NATURAL HERITAGE PROGRAM



TED SCHWINDEN, GOVERNOR

MONTANA STATE LIBRARY BUILDING

## STATE OF MONTANA

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1 APRIL 1987

### PLANT SPECIES OF SPECIAL CONCERN

The Montana Natural Heritage Program (MTNHP) is inventorying the elements of natural diversity of Montana. The inventory includes plant species, animal species, and plant associations which are rare, endemic, disjunct, threatened, or endangered throughout their range or in Montana, vulnerable to extirpation from Montana, or in need of further research.

The attached list of 364 plant taxa of special concern in Montana represents the list which, with periodic revision, is directing data acquisition by the MTNHP. It has been developed from information supplied by the Montana Rare Plant Project (University of Montana, Missoula, MT), as well as from the scientific literature and herbarium specimens. Field research was initiated during 1986. This list is dynamic, and will be revised as new data become available to MTNHP.

Written comments and suggestions are continually needed on this list, particularly regarding additions or deletions, specific locational information, and general comments for the improvement of the list. The data system (map, manual, and computer files) has been set up, and initial data for many taxa have been entered; MTNHP will eventually be able to supply location information and status data for most of these taxa.

Plant taxa are ranked by a standardized procedure used in all state heritage programs. They are ranked on the basis of their range-wide or global rarity, and on their rarity within the specific state, using these ranking categories:

#### GLOBAL

##### RANK

##### Definition

- |    |  |
|----|--|
| G1 | Critically imperiled globally because of extreme rarity (5 or fewer occurrences, or very few remaining individuals), or because of some factor of its biology making it especially vulnerable to extinction. (Critically endangered throughout range). |
| G2 | Imperiled globally because of rarity (6 to 20 occurrences) or because of other factors demonstrably making it very vulnerable to extinction throughout its range. (Endangered throughout range).   |

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Montana Natural Heritage Program  
Plant Species of Special Concern

STATE NAME	ELCODE	FAMILY	GRANK	SRANK	FEDSTATUS
ADDOXA MOSCHATELLINA	PDADO01010	ADDOXACEAE	65	S1	
AGASTACHE CUSICKII	PDLAM03030	LAMIACEAE	6364	S1	3C
AGOSERIS SP. NOV.	PDAST09X10	ASTERACEAE	62	S1	
AGROSTIS BOREALIS	PMPOA040T0	POACEAE	65	S1	
ALLIUM ACUMINATUM	PMLIL02020	LILIACEAE	65	S1	
ALLIUM FIBRILLUM	PMLIL020X0	LILIACEAE	6?	S1	
ALLIUM PARVUM	PMLIL021P0	LILIACEAE	65	S1	
ALLIUM SIMILLIMUM	PMLIL02270	LILIACEAE	6?	S1S2	
ALLOTROPA VIRGATA	PDERI01010	ERICACEAE	64	S1	
AMARANTHUS CALIFORNICUS	PDAMA040A0	AMARANTHACEAE	6?	S1	
AMMANNIA COCCINEA	PDLYT01020	LYTHRACEAE	6?	S1	
AMORPHA CANESCENS	PDFAB08020	FABACEAE	65	S1SX	
ANTENNARIA AROMATICA	PDAST0H0V0	ASTERACEAE	63	S2	C2
ANTENNARIA PLANTAGINIFOLIA	PDAST0H0J0	ASTERACEAE	65	SU	
ANTENNARIA PULCHERRIMA	PDAST0H0L0	ASTERACEAE	6364	S1	
AQUILEGIA BREVI-STYLA	PDRAN05020	RANUNCULACEAE	65	S1	
AQUILEGIA FORMOSA	PDRAN05080	RANUNCULACEAE	6?	S1	
ARABIS FECUNDA	PDBRA06290	BRASSICACEAE	61	S1	C2
ARABIS LIGNIFERA	PDBRA06120	BRASSICACEAE	6?	S1	
ARCTOSTAPHYLOS PATULA	PDERI04130	ERICACEAE	64	S1	
ARENARIA KINGII	PDCAR04000	CARYOPHYLLACEAE	6?	SU	
ARTEMISIA NORVEGICA VAR SAXATILIS	PDAST0S071	ASTERACEAE	6?	S1	
ARTEMISIA PEDATIFIDA	PDAST0S1A0	ASTERACEAE	6?	S2	
ASCLEPIAS STENOPHYLLA	PDASC021U0	ASCLEPIADACEAE	64	S1	
ASPLENIUM TRICHOMANES	PPASP021K0	ASPLENIACEAE	65	S1	
ASTER FRONDOSUS	PDAST0T160	ASTERACEAE	6?	SU	
ASTER PTARMICOIDES	PDAST0P1F0	ASTERACEAE	65	S1	
ASTRAGALUS ARETIQIDES	PDFAB0F0R0	FABACEAE	64	S2	
ASTRAGALUS ARGOPHYLLUS VAR ARGOPHYLLUS	PDFAB0F0S1	FABACEAE	6?	S1	
ASTRAGALUS BARRII	PDFAB0F150	FABACEAE	6263	S2	C2
ASTRAGALUS CERAMICUS VAR APUS	PDFAB0F1V1	FABACEAE	6473	S1	3C
ASTRAGALUS CHAMAELEUCE	PDFAB0F1X0	FABACEAE	65	S1	
ASTRAGALUS CONVALLARIUS	PDFAB0F2D0	FABACEAE	65	S1	
ASTRAGALUS GEYERI	PDFAB0F3M0	FABACEAE	65	S1	
ASTRAGALUS GRAYI	PDFAB0F3V0	FABACEAE	6?	S1	
ASTRAGALUS HYALINUS	PDFAB0F460	FABACEAE	63	S2	
ASTRAGALUS LENTIGINOSUS VAR SALINUS	PDFAB0F4QR	FABACEAE	65T?	S1	
ASTRAGALUS LEPTALEUS	PDFAB0F4R0	FABACEAE	64	SUS1	
ASTRAGALUS HOLYBDENUS	PDFAB0F5M0	FABACEAE	6?	S1	
ASTRAGALUS OREGANUS	PDFAB0F6D0	FABACEAE	6?	S1	
ASTRAGALUS PLATTENSIS	PDFAB0F6W0	FABACEAE	64	S2S3	
ASTRAGALUS PLATYTROPIS	PDFAB0F6X0	FABACEAE	6?	SU	
ASTRAGALUS RACEMOSUS VAR LONGISETUS	PDFAB0F7C1	FABACEAE	6?	SU	
ASTRAGALUS SCAPHOIDES	PDFAB0F7V0	FABACEAE	62	S1	C2
ASTRAGALUS TERMINALIS	PDFAB0F8U0	FABACEAE	6364	S2	
ATHYSANUS PUSILLUS	PDBRA08010	BRASSICACEAE	64	S1	
BACOPA ROTUNDIFOLIA	PDSCR06080	SCROPHULARIACEAE	65	S1	
BALSAMORHIZA MACROPHYLLA	PDAST11070	ASTERACEAE	6365	S1	
BIDENS TRIPARTITA	PDAST181L0	ASTERACEAE	6?	SU	
BIDENS VULGATA VAR SCHIZANTHA	PDAST181N1	ASTERACEAE	6?T?	S1	

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STATE NAME	ELCODE	FAMILY	GRANK	SRANK	FEDSTATUS
BOTRYCHIUM CRENULATUM	PPOPH010L0	OPHIOGLOSSACEAE	61630	S1	C2
BOTRYCHIUM HESPERIUM	PPOPH010Q0	OPHIOGLOSSACEAE	6264	SU	
BOTRYCHIUM MINGANENSE	PPOPH010R0	OPHIOGLOSSACEAE	6364	S1	
BOTRYCHIUM MONTANUM	PPOPH010K0	OPHIOGLOSSACEAE	6263	S2	
BOTRYCHIUM PARADOXUM	PPOPH010J0	OPHIOGLOSSACEAE	61	S10	C2
BRASENIA SCHREBERI	PDNYH01010	NYMPHAEACEAE	65	S1	
BULBOSTYLIS CAPILLARIS	PMCPY02020	CYPERACEAE	65	S1	
CALAMAGROSTIS TWEEDYI	PMPOA17150	POACEAE	63	S1	C2
CAMISSONIA ANDINA	PDONA03010	ONAGRACEAE	64	S1	
CAMISSONIA MINOR	PDONA03110	ONAGRACEAE	67	S1	
CAMISSONIA SCAPOIDEA SSP BRACHYCARPA	PDONA03161	ONAGRACEAE	67	S1	
CARDAMINE RUPICOLA	PDBRA0K130	BRASSICACEAE	62	S2	3C
CAREX AMPLIFOLIA	PMCPY030N0	CYPERACEAE	6364	S1	
CAREX CHORDORRHIZA	PMCPY032U0	CYPERACEAE	65	S1	
CAREX COMOSA	PMCPY032Y0	CYPERACEAE	65	S1	
CAREX CRAWEI	PMCPY03360	CYPERACEAE	65	S1	
CAREX EURYCARPA	PMCPY034E0	CYPERACEAE	67	S1?	
CAREX GRAVIDA	PMCPY03560	CYPERACEAE	65	S1S2	
CAREX IDAHOA	PMCPY036E0	CYPERACEAE	630	S1	3C
CAREX INCURVIFORMIS VAR DANAENSIS	PMCPY03661	CYPERACEAE	67	S1	
CAREX LENTICULARIS VAR DOLIA	PMCPY037A3	CYPERACEAE	65T2	S1	C2
CAREX LIVIDA	PMCPY037L0	CYPERACEAE	65	S1	
CAREX MICROGLOCHIN	PMCPY038K0	CYPERACEAE	65?	SU	
CAREX MISANDRA	PMCPY038N0	CYPERACEAE	67	S2	
CAREX MULTICOSTATA	PMCPY038Y0	CYPERACEAE	67	S1	
CAREX OCCIDENTALIS	PMCPY039M0	CYPERACEAE	67	SU	
CAREX PAUPERICULA	PMCPY03A70	CYPERACEAE	65	S1	
CAREX PETRICOSA	PMCPY03AF0	CYPERACEAE	67	S1	
CAREX SCOPARIA	PMCPY03C90	CYPERACEAE	65	S1	
CAREX STENOPTILA	PMCPY03CX0	CYPERACEAE	67	SU	
CAREX SYCHNOCEPHALA	PMCPY03DE0	CYPERACEAE	64	S1	
CAREX TENUIFLORA	PMCPYA	CYPERACEAE	65	S1	
CAREX TINCTA	PMCPY03DQ0	CYPERACEAE	6465	S1	
CAREX TORREYI	PMCPY03DT0	CYPERACEAE	64	S1	
CASTILLEJA ANGUSTIFOLIA	PDSCR0D020	SCROPHULARIACEAE	6365	S1S2?	
CASTILLEJA COVILLEANA	PDSCR0D0K0	SCROPHULARIACEAE	67	S1	
CASTILLEJA EXILIS	PDSCR0D0W0	SCROPHULARIACEAE	67	SU	
CASTILLEJA GRACILLIMA	PDSCR0D150	SCROPHULARIACEAE	67	SU	
CASTILLEJA LONGISPICA	PDSCR0D1W0	SCROPHULARIACEAE	67	SU	
CASTILLEJA OCCIDENTALIS	PDSCR0D290	SCROPHULARIACEAE	67	S2	
CASTILLEJA RUSTICA	PDSCR0D2V0	SCROPHULARIACEAE	67	SU	
CEANOETHUS HERBACEUS	PDRHA040K0	RHANNACEAE	65	S1SH	
CELASTRUS SCANDENS	PDCEL03020	CELASTRACEAE	65	S1	
CENTAURIUM EXALTATUM	PDGEN02060	GENTIANACEAE	65	S1S2	
CENTUNCULUS MINIMUS	PDPRI01020	PRINULACEAE	65	S1SH	
CERCOCARPUS MONTANUS VAR GLABER	PDR0S08023	ROSACEAE	67	S1	
CHRYSOSPHEMIUM TETRANDRUM	PDSAX07050	SAXIFRAGACEAE	67	S1	
CHRYSOTHAMNUS LINIFOLIUS	PDAST2C050	ASTERACEAE	67	S1SH	
CIRSIIUM BREVIISTYLUM	PDAST2E000	ASTERACEAE	67	S1	
CIRSIIUM LONGISTYLUM	PDAST2E1P0	ASTERACEAE	620	S20	

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STATE NAME	ELCODE	FAMILY	GRANK	SRANK	FEDSTATUS
CIRSIIUM SUBNIVEUM	PDAST2E250	ASTERACEAE	6364	S1	
CLARKIA RHOMBOIDEA	PDONA050X0	ONAGRACEAE	6?	S1	
CLAYTONIA LANCEOLATA VAR FLAVA	PDPOR03092	PORTULACACEAE	65T1	S1	C2
CLEOME LUTEA	PDCPP03070	CAPPARACEAE	6?	S1	
CONIOSELINUM SCOPULORUM	PDAPI0P040	APIACEAE	6?	S1	
CORDYLANTHUS CAPITATUS	PDSCR0J030	SCROPHULARIACEAE	6?	S1	
CORDYLANTHUS RAMOSUS	PDSCR0J0N0	SCROPHULARIACEAE	6365	S2	
CORYDALIS SEMPERVIRENS	PDPAP070B0	PAPAVACEAE	6465	S1S2	
CRYPTANTHA CANA	PDBOR0A0D0	BORAGINACEAE	63	S3	
CRYPTANTHA FENDLERI	PDBOR0A0X0	BORAGINACEAE	64	S1	
CRYPTANTHA FLAVOCULATA	PDBOR0A100	BORAGINACEAE	65	S1	
CRYPTANTHA HUMILIS	PDBOR0A1A0	BORAGINACEAE	6?	S1?	
CRYPTANTHA SOBOLIFERA	PDBOR0A2X0	BORAGINACEAE	6264	S2	3C
CRYPTANTHA SPICULIFERA	PDBOR0A2Z0	BORAGINACEAE	6?	SU	
CUSCUTA PENTAGONA	PDCOM07140	CONVOLVULACEAE	65	S1SU	
CYPERUS ACUMINATUS	PMCCY06010	CYPERACEAE	65	S1	
CYPERUS ERYTHORRHIZOS	PMCCY060Z0	CYPERACEAE	65	SU	
CYPERUS RIVULARIS	PMCCY06320	CYPERACEAE	65	S1	
CYPERUS SCHWEINITZII	PMCCY06360	CYPERACEAE	65	S1	
CYPRIPEDIUM CALCEOLUS VAR PARVIFLORUM	PMORC00090	ORCHIDACEAE	64T3	S2	
CYPRIPEDIUM FASCICULATUM	PMORC00060	ORCHIDACEAE	64	S1	3C
CYPRIPEDIUM PASSERINUM	PMORC000A0	ORCHIDACEAE	6465	S1	
CYSTOPTERIS MONTANA	PPASP08050	ASPLENIACEAE	65	S1SU	
DALEA VILLOSA VAR VILLOSA	PDFAB1A102	FABACEAE	6?	S1	
DELPHINIUM ANDERSONII	PDRAN0B030	RANUNCULACEAE	6?	SU	
DELPHINIUM BURKEI	PDRAN0B090	RANUNCULACEAE	6?	S1	
DELPHINIUM WOOTONII	PDRAN0B0L0	RANUNCULACEAE	6?	SU	
DICHANTHELIUM OLIGOSANTHES	PMPOA24000	POACEAE	65	S1SH	
DRABA APICULATA	PDBRA11050	BRASSICACEAE	6465	S1	
DRABA BRACHYCARPA	PDBRA110J0	BRASSICACEAE	6465	S1	
DRABA DAVIESIAE	PDBRA112U0	BRASSICACEAE	62	S2	
DRABA FLADNIZENSIS	PDBRA110Z0	BRASSICACEAE	6?	S1	
DRABA MACCOUNII	PDBRA111H0	BRASSICACEAE	6364	S1	
DRABA PORSILDII	PDBRA11200	BRASSICACEAE	6?	S1	
DRABA VENTOSA	PDBRA112N0	BRASSICACEAE	65	S1	
DROSEREA LINEARIS	PDROR02060	DROSERACEAE	64	S1	
DRYAS INTEGRIFOLIA	PDROR0L020	ROSACEAE	65	S1	
DRYOPTERIS CRISTATA	PPASP0C080	ASPLENIACEAE	65	S1	
ELATINE CALIFORNICA	PDELT02040	ELATINACEAE	6?	S1	
ELODEA LONGIVAGINATA	PMHYD03060	HYDROCHARITACEAE	6?	S1	
ELODEA NUTTALLII	PMHYD03080	HYDROCHARITACEAE	65	S2	
ELYMUS FLAVESCENS	PMPOA2H070	POACEAE	64	S1	
ELYMUS INNOVATUS	PMPOA2H0A0	POACEAE	64	S1	
EPIPACTIS GIGANTEA	PMORC11010	ORCHIDACEAE	64	S1	
ERIGERON ALLOCOTUS	PDAST3M050	ASTERACEAE	6264	S2	3C
ERIGERON ASPERUGINEUS	PDAST3M0D0	ASTERACEAE	64	S1	
ERIGERON BELLIDIASTRUM	PDAST3M0J0	ASTERACEAE	6?	SU	
ERIGERON EATONII SSP EATONII	PDAST3M171	ASTERACEAE	6?	S1?	
ERIGERON EVERMANNII	PDAST3M1B0	ASTERACEAE	6465	S2	
ERIGERON FLABELLIFOLIUS	PDAST3M1E0	ASTERACEAE	6?	S2	



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ERIGERON FLAGELLARIS	PDAST3M1F0	ASTERACEAE	6?	S1	
ERIGERON FORMOSISSIMUS VAR VISCIDUS	PDAST3M1K2	ASTERACEAE	6?	S1	
ERIGERON GRACILIS	PDAST3M1R0	ASTERACEAE	64	S1	
ERIGERON LACKSCHEWITZII	PDAST3M4F0	ASTERACEAE	610	S10	
ERIGERON LANATUS	PDAST3M250	ASTERACEAE	64	S2	
ERIGERON LINEARIS	PDAST3M2B0	ASTERACEAE	6?	SU	
ERIOGONUM CHRYSOPS	PDPGN08120	POLYGONACEAE	6H0	S2	C2
ERIOGONUM LAGOPUS	PDPGN083E0	POLYGONACEAE	6163	S10	C2
ERIOGONUM PYROLIFOLIUM VAR CORYPHEUM	PDPGN084Z1	POLYGONACEAE	6?	S2	
ERIOGONUM UMBELLATUM VAR STELLATUM	PDPGN0862K	POLYGONACEAE	6?	SU	
ERIOPHORUM ALPINUM	PMCYP0A010	CYPERACEAE	65	S1	
ERIOPHORUM VIRIDICARINATUM	PMCYP0A0E0	CYPERACEAE	65	S1	
ERYTHRONIUM GRANDIFLORUM VAR CANDIDUM	PNLIL0U051	LILIACEAE	65T3	S2	
EUPATORIUM MACULATUM VAR BRUNERI	PDAST3P141	ASTERACEAE	65TU	S1	
EUPATORIUM OCCIDENTALE	PDAST3P180	ASTERACEAE	64	S1	
EUPHRASIA DISJUNCTA	PDSCR0P030	SCROPHULARIACEAE	65	S1	
FESTUCA VIVIPARA	PM	POACEAE	6U	S10	
GENTIANA AQUATICA	PDGEN06050	GENTIANACEAE	64	S1	
GENTIANA GLAUCA	PDGEN060E0	GENTIANACEAE	6?	S1	
GENTIANELLA PROPINQUA	PDGEN07050	GENTIANACEAE	64	S1S2	
GENTIANELLA TENELLA	PDGEN07070	GENTIANACEAE	64	S2	
GENTIANOPSIS MACOUNII	PDGEN08050	GENTIANACEAE	6364	S1	
GENTIANOPSIS SIMPLEX	PDGEN080A0	GENTIANACEAE	6364	S1	
GEOCAULON LIVIDUM	PDSAN04010	SANTALACEAE	64	S1	
GEUM ROSSII VAR ROSSII	PDR0S0S0E2	ROSACEAE	6465T	SU	
GILIA LEPTOMERIA VAR LEPTOMERIA	PDPLM040X1	POLEMONIACEAE	6?T?	S2?	
GILIA TWEEDYI	PDPLM041U0	POLEMONIACEAE	6465Q	S1	
GLANDULARIA BIPINNATIFIDA	PDVER0A010	VERBENACEAE	6?	SU	
GOODYERA REPENS	PMORC17030	ORCHIDACEAE	65	S1	
GRAYIA SPINOSA	PDCH0C020	CHENOPODIACEAE	65	SU	
GRINDELIA HOWELLII	PDAST470E0	ASTERACEAE	63	S3	C2
HALENIA DEFLEXA	PDGEN09010	GENTIANACEAE	64	S1	
HAPLOPAPPUS MACRONEMA	PDAST4F0U0	ASTERACEAE	6365	S1	
HAPLOPAPPUS MULTICAULIS	PDAST4F0W0	ASTERACEAE	64	S1	
HAPLOPAPPUS NANUS	PDAST3L0B0	ASTERACEAE	6?	S1	
HAPLOPAPPUS PYGMAEUS	PDAST4F100	ASTERACEAE	6?	S1	
HEDYSARUM ALPINUM	PDFAB12010	FABACEAE	65	SU	
HEMICARPHA DRUMMONDII	PMCYP0E010	CYPERACEAE	6?	SU	
HETERANTHERA DUBIA	PMPON06010	PONTEDERIACEAE	65	S1	
HETEROCODON RARIFLORUM	PDCAM08010	CAMPANULACEAE	6?	S1	
HOWELLIA AQUATILIS	PDCAM0A010	CAMPANULACEAE	62	S1	C2
HUTCHINSIA PROCUMBENS	PDBRA1E010	BRASSICACEAE	65	S1	
HYMENOPAPPUS FILIFOLIUS VAR IDAHOENSIS	PDAST51034	ASTERACEAE	6264T	SU	3C
HYMENOPAPPUS FILIFOLIUS VAR LUTEUS	PDAST51036	ASTERACEAE	6?	SU	
IDAHOA SCAPIGERA	PDBRA16010	BRASSICACEAE	65	S1	
IPOMOPSIS CONGESTA SSP CREBRIFOLIA	PDPLN06032	POLEMONIACEAE	6?	S1	
IPOMOPSIS PUMILA	PDPLN060E0	POLEMONIACEAE	6?	S1	
JUNCUS ACUMINATUS	PMJUN01030	JUNCACEAE	65	S1	
JUNCUS ALBESCENS	PMJUN01060	JUNCACEAE	6?	S1	
JUNCUS BIGLUMIS	PMJUN010B0	JUNCACEAE	6?	S2	

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STATE NAME	ELCODE	FAMILY	GRANK	SRANK	FEDSTATUS
JUNCUS CASTANEUS	PMJUN010P0	JUNCACEAE	6?	S2	
JUNCUS COVILLEI	PMJUN010V0	JUNCACEAE	6465	S1	
JUNCUS HALLII	PMJUN011E0	JUNCACEAE	6?	S1	
JUNCUS TRIGLUMIS	PMJUN012Z0	JUNCACEAE	65	S2	
KELLOGGIA GALIODES	PDRUB12010	RUBIACEAE	6?	S1	
KOBRESIA MACROCARPA	PMCPY0F020	CYPERACEAE	65	S1	
KOBRESIA SIMPLICIUSCULA	PMCPY0F030	CYPERACEAE	65	S1	
KOCHIA AMERICANA	PDCHE0E010	CHENOPODIACEAE	6?	S1	
KOENIGIA ISLANDICA	PDPGN0D010	POLYGONACEAE	64	S2	
LATHYRUS BIJUGATUS	PDFAB25040	FABACEAE	6?	S1	
LEPIDIUM MONTANUM VAR MONTANUM	PDBRA1M0LA	BRASSICACEAE	6?	S1	
LEPTODACTYLON CAESPITOSUM	PDPLM0B010	POLEMONIACEAE	6364	S1	
LESQUERELLA CARINATA	PDBRA1N0B0	BRASSICACEAE	63	S1	3C
LESQUERELLA HUMILIS	PDBRA1N1Y0	BRASSICACEAE	61	S1	
LESQUERELLA KLAUSII	PDBRA1N1Z0	BRASSICACEAE	62	S2	
LESQUERELLA OCCIDENTALIS	PDBRA1N170	BRASSICACEAE	64	S1	
LEWISIA COLUMBIANA VAR WALLOWENSIS	PDPOR04033	PORTULACACEAE	64T4	S1	3C
LIGUSTICUM FILICINUM	PDAP118060	APIACEAE	6?	S1	
LIGUSTICUM PORTERI	PDAP118080	APIACEAE	6465	S1	
LIGUSTICUM VERTICILLATUM	PDAP1180B0	APIACEAE	6465	S2S3	
LILAEA SCILLOIDES	PMSCH01010	SCHEUCHZERIACEAE	6?	S1	
LILIUM COLUMBIANUM	PMLIL1A050	LILIACEAE	6?	S1	
LINANTHUS NUTTALLII SSP NUTTALLII	PDPLN090V1	POLEMONIACEAE	6?T?	S2	
LINARIA TEXANA	PDSCR110D0	SCROPHULARIACEAE	6465	S1	
LOBELIA SPICATA	PDCAN0E190	CAMPANULACEAE	65	S1	
LOMATIUM BICOLOR VAR BICOLOR	PDAP11B021	APIACEAE	6?	S2	
LOMATIUM BEYERI	PDAP11B0N0	APIACEAE	6?	S1	
LYCOPODIUM ALPINUM	PPLYC01020	LYCOPODIACEAE	6?	S1S2	
LYCOPODIUM OBSCURUM	PPLYC010P0	LYCOPODIACEAE	65	SU	
MACHAERANTHERA COMMIXTA	PDAST640D0	ASTERACEAE	6364	S1	
MADIA MINIMA	PDAST650C0	ASTERACEAE	6?	SU	
MAIANTHEMUM CANADENSE	PMLIL1D010	LILIACEAE	65	S1SH	
MALACOTHRIX TORREYI	PDAST660E0	ASTERACEAE	65	S1	
MENTZELIA MONTANA	PDLOA03110	LOASACEAE	64	SU	
MENTZELIA NUDA	PDLOA03150	LOASACEAE	6?	SU	
MENTZELIA PUMILA	PDLOA03160	LOASACEAE	6?	S1	
MERTENSIA BELLA	PDBOR0N040	BORAGINACEAE	64	S1	
MIMULUS NANUS	PDSCR1B1Y0	SCROPHULARIACEAE	6?	S1S2	
MIMULUS PRIMULOIDES	PDSCR1B270	SCROPHULARIACEAE	6?	S1	
MIRABILIS HIRSUTA	PDNYC0A0P0	NYCTAGINACEAE	6?	S1	
MUHLENBERGIA ANDINA	PMPOA48010	POACEAE	64	S2	
MUHLENBERGIA MINUTISSIMA	PMPOA48130	POACEAE	64	S1	
MYOSOTIS VERNA	PDBOR0P0D0	BORAGINACEAE	6?	SU	
NAJAS GUADALUPENSIS	PMNAJ01050	NAJADACEAE	65	S1	
NYMPHAEA TETRAGONA	PDNYM050B0	NYMPHAEACEAE	65	S1	
OENOTHERA PALLIDA VAR IDAHOENSIS	PDONA0C0Y2	ONAGRACEAE	64T4	S1	
OPHIOGLOSSUM VULGATUM	PPOPH020B0	OPHIOGLOSSACEAE	65	S1	
ORCHIS ROTUNDIFOLIA	PMORC01010	ORCHIDACEAE	65	S1	
OROBANCHE CORYMBOSA	PDOR04040	OROBANCHACEAE	6?	S1	
OROGENTIA LINEARIFOLIA	PDAP11J020	APIACEAE	6?	S1	

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OXYTROPIS COLUMBIANA	PDFAB2X0S0	FABACEAE	62	S1	
OXYTROPIS LAGOPUS VAR CONJUGENS	PDFAB2X0A2	FABACEAE	64T2	S2	
OXYTROPIS PODOCARPA	PDFAB2X0K0	FABACEAE	6?	S1	
PAPAVER KLUANENSIS	PDPAP0H080	PAPAVERACEAE	64	S1	
PAPAVER PYGMAEUM	PDPAP0H020	PAPAVERACEAE	65	S2	
PEDICULARIS CONTORTA VAR CTENOPHORA	PDSCR1K092	SCROPHULARIACEAE	6?	SU	
PEDICULARIS CONTORTA VAR RUBICUNDA	PDSCR1K093	SCROPHULARIACEAE	6?T?	S1	
PEDICULARIS OEDERI	PDSCR1K0R0	SCROPHULARIACEAE	6?	S2	
PENSTEMON ATTENUATUS VAR MILITARIS	PDSCR1L0H2	SCROPHULARIACEAE	64T4	S1	
PENSTEMON CARYI	PDSCR1L180	SCROPHULARIACEAE	6263	S2	3C
PENSTEMON FLAVESCENS	PDSCR1L2B0	SCROPHULARIACEAE	63	S1	
PENSTEMON LARICIFOLIUS	PDSCR1L3J0	SCROPHULARIACEAE	64	S2	
PENSTEMON LEMHIENSIS	PDSCR1L3N0	SCROPHULARIACEAE	63	S2	C2
PENSTEMON PAYETTENSIS	PDSCR1L4T0	SCROPHULARIACEAE	64	S1	
PENSTEMON WHIPPLEANUS	PDSCR1L6P0	SCROPHULARIACEAE	65	S1	
PHACELIA INCANA	PDHYD0C270	HYDROPHYLLACEAE	6364	S1	
PHACELIA IVESIANA	PDHYD0C260	HYDROPHYLLACEAE	6?	S1	
PHACELIA THERMALIS	PDHYD0C4L0	HYDROPHYLLACEAE	6?	S1	
PHIPPSIA ALGIDA	PNPOA4T010	POACEAE	65	S1	3C
PHLOX ANDICOLA	PDPLM0D080	POLEMONIACEAE	6?	SU	
PHLOX MISSOULENSIS	PDPLM0D190	POLEMONIACEAE	620	S20	3C
PHYSALIS HEDERAEFOLIA	PDSOL0S0D0	SOLANACEAE	65?	SU	
PHYSALIS PUMILA	PDSOL0S0M0	SOLANACEAE	6?	SU	
PHYSARIA ACUTIFOLIA	PDBRA22010	BRASSICACEAE	6465	S2	
PHYSARIA SAXIMONTANA VAR DENTATA	PDBRA220L1	BRASSICACEAE	62T1	S1	
PHYSOCARPUS MONOGYNUS	PDR0S19040	ROSACEAE	64	SU	
PINGUICULA VULGARIS	PDLNT01090	LENTIBULARIACEAE	65	S2	
PLAGIOBOTHRYX LEPTOCLADUS	PDBOR0V0N0	BORAGINACEAE	6?	S1	
PLATYSCHUKHRIA INTEGRIFOLIA	PDAST7C010	ASTERACEAE	6?	S2	
POLYGONUM DOUGLASII VAR AUSTINAE	PDPGN0L0X1	POLYGONACEAE	6465TU	SU	
POLYSTICHUM KRUCKEBERGII	PPASP0U0B0	ASPLENIACEAE	65	S1	3C
POLYSTICHUM SCOPULINUM	PPASP0U0K0	ASPLENIACEAE	6?	SU	
POTAMOGETON OBTUSIFOLIUS	PMPT030R0	POTAMOGETONACEAE	65	S1S2	
POTENTILLA BREVIFOLIA	PDR0S1B0B0	ROSACEAE	6?	S1	
POTENTILLA UNIFLORA	PDR0S1B2B0	ROSACEAE	6?	S1	
PRIMULA ALCALINA	PDPRI080Q0	PRIMULACEAE	61?	S1SH	
PSILOCARPHUS BREVISSIMUS	PDAST7R010	ASTERACEAE	64	S1	
PSORALEA HYPOGAEA	PDFAB3B0F0	FABACEAE	6364	S1	
PTERYXIA HENDERSONII	PDAP11X020	APIACEAE	6?	S2SU	
QUERCUS MACROCARPA	PDFAG0S190	FAGACEAE	65	S1?	
RANUNCULUS CARDIOPHYLLUS	PDRAN0L0K0	RANUNCULACEAE	6?	S1	
RANUNCULUS GELIDUS	PDRAN0L0Y0	RANUNCULACEAE	64	S1	
RANUNCULUS JOVIS	PDRAN0L1D0	RANUNCULACEAE	6?	S1	
RORIPPA CALYCINA	PDBRA27040	BRASSICACEAE	62	S1	C2
RUBUS URSINUS	PDR0S1K7X0	ROSACEAE	65	S2	
SAGINA NIVALIS	PDCAR0P070	CARYOPHYLLACEAE	65	S1	
SALIX BARRATTIANA	PDSAL020D0	SALICACEAE	65	S1	
SALIX SERISSIMA	PDSAL022P0	SALICACEAE	64	S1	
SALIX WOLFII VAR WOLFII	PDSAL02341	SALICACEAE	6365T?	S1	
SATUREJA DOUGLASII	PDLAM1T020	LAMIACEAE	6?	S1?	

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SAUSSUREA DENSA	PDAST8B051	ASTERACEAE	64	S1	
SAUSSUREA WEBERI	PDAST8B060	ASTERACEAE	64	S1	3C
SAXIFRAGA APETALA	PDSAX0U220	SAXIFRAGACEAE	67	S2	
SAXIFRAGA CHRYSANTHA	PDSAX0U0D0	SAXIFRAGACEAE	67	S1	
SAXIFRAGA TEMPESTIVA	PDSAX0U1R0	SAXIFRAGACEAE	62	S2	
SAXIFRAGA TOLMIEI VAR LEDIFOLIA	PDSAX0U1U1	SAXIFRAGACEAE	65T5	S2	
SCIRPUS CYPERINUS	PHCYP0Q0F0	CYPERACEAE	65	S1	
SCIRPUS HETEROCHAETUS	PHCYP0Q0T0	CYPERACEAE	65	S3	
SCIRPUS NEVADENSIS	PHCYP0Q130	CYPERACEAE	64	S1S2	
SCIRPUS SUBTERMINALIS	PHCYP0Q160	CYPERACEAE	6465	S1	
SEDUM DEBILE	PDCRA0A090	CRASSULACEAE	6465	S1	
SELAGINELLA SELAGINOIDES	PPSEL01110	SELAGINELLACEAE	65	S1	
SELAGINELLA WATSONII	PPSEL011D0	SELAGINELLACEAE	6465	S1	
SENECIO AMPLECTENS VAR HOLMII	PDAST8H022	ASTERACEAE	67	S1	
SENECIO DEBILIS	PDAST8H110	ASTERACEAE	6364	S1	
SENECIO FUSCATUS	PDAST8H1E0	ASTERACEAE	67	S2	
SENECIO PAUCIFLORUS	PDAST8H2D0	ASTERACEAE	6465	S1	
SHOSHONEA PULVINATA	PDAP12G010	APIACEAE	62	S1	C2
SILENE SPALDINGII	PDCAR0U1S0	CARYOPHYLLACEAE	62	S1	C2
SOLIDAGO SPARSIFLORA	PDAST8P1V0	ASTERACEAE	67	SU	
SPHAERALCEA MUNRODANA	PDMA1140F0	NALVACEAE	64	S1	
SPHAEROMERIA CAPITATA	PDAST8S030	ASTERACEAE	6364	S2	
SPHENOPHOLIS OBTUSATA VAR MAJOR	PMPOAST031	POACEAE	67	S2	
SPOROBOLUS NEGLECTUS	PMPOA5V0L0	POACEAE	65	SU	
SPOROBOLUS VAGINIFLORUS	PMPOA5V0X0	POACEAE	65	SU	
STANLEYA TOMENTOSA	PDBRA2E050	BRASSICACEAE	64	S1	
STANLEYA VIRIDIFLORA	PDBRA2E060	BRASSICACEAE	64	S1	
STELLARIA SINCOEI	PDCAR0X100	CARYOPHYLLACEAE	640	S10	
STEPHANOMERIA SPINOSA	PDAST8U0E0	ASTERACEAE	67	S2	
STIPA LETTERMANII	PMPOA5X0H0	POACEAE	67	SU	
STIPA THURBERIANA	PMPOA5X120	POACEAE	67	SU	
STREPTANTHELLA LONGIROSTRIS	PDBRA2F010	BRASSICACEAE	67	S1	
SULLIVANTIA HAPEMANII	PDSAX0X010	SAXIFRAGACEAE	63	S1	3C
SYNTHYRIS CANBYI	PDSCR1W020	SCROPHULARIACEAE	62	S2	3C
SYNTHYRIS MISSURICA	PDSCR1W040	SCROPHULARIACEAE	670	S1	
TARAXACUM ERIOPHORUM	PDAST93060	ASTERACEAE	64	S1	
TETRANEURIS TORREYANA	PDAST530H0	ASTERACEAE	67	S1	
THALICTRUM ALPINUM	PDRAN0M010	RANUNCULACEAE	65	S1	
THELYPODIUM PANICULATUM	PDBRA2N0B0	BRASSICACEAE	67	S1	
THELYPODIUM SAGITTATUM SSP SAGITTATUM	PDBRA2N0E2	BRASSICACEAE	67	SU	
THELYPTERIS PHEGopteris	PPASP0X130	ASPLENIACEAE	65	S1	
THLASPI PARVIFLORUM	PDBRA2P050	BRASSICACEAE	67	SU	
TOFIELDIA PUSILLA	PHLIL1Y040	LILIACEAE	6465	S1	
TOWNSENDIA CONDENSATA	PDAST9C040	ASTERACEAE	67	S1	
TOWNSENDIA FLORIFER	PDAST9C080	ASTERACEAE	65	S1	
TOWNSENDIA INCANA	PDAST9C0D0	ASTERACEAE	67	S1S2	
TOWNSENDIA LEPTOTES	PDAST9C0F0	ASTERACEAE	67	SU	
TOWNSENDIA SPATHULATA	PDAST9C0M0	ASTERACEAE	63	S2	3C
TRADESCANTIA BRACTEATA	PHCOM0B010	COMMELINACEAE	6365	SU	
TRIFOLIUM ERIOCEPHALUM SSP ARCUATUM	PDFAB400V1	FABACEAE	67	S1	



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TRIFOLIUM GYMNOCARPON	PDFAB40110	FABACEAE	G?	SU	
TRIGLOCHIN CONCINNUM VAR DEBILE	PMSCH03012	SCHEUCHZERIAACEAE	G5T4	S1	
TRisetum orthochaetum	PMPDA690A0	POACEAE	G10	S10	C2
UTRICULARIA INTERMEDIA	PDLNT020A0	LENTIBULARIACEAE	G5	S1	
VACCINIUM MYRTILLOIDES	PDERI180M0	ERICACEAE	G5	S1	
VERATRUM CALIFORNICUM	PMLIL25020	LILIACEAE	G5	S1SU	
VERBESINA ENCELIOIDES	PDAST9R060	ASTERACEAE	G?	SU	
VIBURNUM LENTAGO	PDCPR070B0	CAPRIFOLIACEAE	G5	S1	
VIOLA RENIFOLIA	PDVIO041V0	VIOLACEAE	G5	S1	
WOLFFIA COLUMBIANA	PMLEM03030	LEMNACEAE	G5	S1	
WOLFFIA PUNCTATA	PMLEM03040	LEMNACEAE	G5	S1	
WYETHIA SCABRA VAR SCABRA	PDAST9X0E3	ASTERACEAE	G?	S1	
XYLORHIZA GLABRIUSCULA	PDASTA1030	ASTERACEAE	G3G5	S1	
ZIZIA AUREA	PDAP12F020	APIACEAE	G5	SU	